ELSCOLAB BV

Press kit Elscolab BV

HET Instrument 2012 – Booth 1E069 & 2D065

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1. No more troubles with water baths, we present you the new bead baths!

Lab Armor – Bead Baths

A Lab Armor Bead Bath performs all the essentials such as warming, thawing, incubating and chilling while maintaining a constant temperature just like a water bath, but with some extra benefits:

- The Bead Bath naturally holds things in place without accessories.
- Higher energy efficiency: water constantly evaporates during water bath operation which causes a cooling effect. Due to this evaporative-cooling effect, the bath must heat more frequently which increases energy consumption.
- The Bead Bath never has to be turned off.
- Any type of vessel can be used, they don't have to be water-tight. No risk of water infiltrating into the vessels.
- An exceptional temperature uniformity of +/- 0.5°C at 37°C and +/- 1.0°C at 65°C and fewer temperature fluctuations.
- 3 Bead Bath sizes: 6, 14 and 20 litres, depending on your specifications, needs and applications.
- Environmentally friendly: efforts have been made to eliminate the need of germicides that are a common part of water bath maintenance. Bead Baths are dry and periodic decontamination with a biodegradable disinfectant such as 70% ethanol is usually all that is required. The Beads are formed from solid recyclable metal, which means that the raw material can be reused in other products.

2. No more melted ice, puddles, floating tubes or wet and contaminated samples!

Lab Armor – Chill Bucket

The Chill Bucket is a revolutionary laboratory ice bucket that works without ice. It chills while keeping everything dry and in place, so you no longer have to worry about water-borne contamination or losing track of your samples.

3. Electronic 96-Channel Hand-held Pipettor
Integra Biosciences – VIAFLO96

The VIAFLO 96 introduces a totally new concept in 96 well pipetting, which is affordable and simple to use. It renders 96-channel pipetting as easy as manual single channel pipetting.

The VIAFLO 96 offers following advantages:

- **Unique system**: it is used like a hand-held pipette, therefore no special skills or training is required to work with the VIAFLO 96.
- **Reliable**.
- **Small-size**: compact and ergonomic design which allows the placement of the VIAFLO 96 into most laminar flow hoods to allow work under sterile conditions.
- **Versatile**: the colour display and industry proven touch wheel interface create an intuitive, easy to use pipette, with a full range of pipette modes and application specific programming.
- **Productive**: the VIAFLO 96 offers unmatched speed and ease of use for processing 96 and 384 well plates.
- **Flexible**.

4. Liquid waste gone in a sip!
Integra Biosciences – VacuSIP

VacuSIP offers the convenient and affordable solution for **bench-top liquid waste disposal**. It is a **compact** and **ready-to-use** vacuum aspiration system with an **integrated vacuum pomp**. VacuSIP is completely independent from external vacuum sources and with the long-life battery also fully **mobile**.

The advantages:

- The most comfortable bench-top aspiration system.
- Portable and space saving.
- Safety in mind.
- A handy tool for all aspiration tasks.
- Wide range of applications.

5. Electronic adjustable spacing pipettes
Integra Biosciences – VIAFLO Voyager

Some benefits to discover:

- **Adjustable Tip Spacing**: the Voyager enables scientists to transfer multiple samples efficiently between lab ware of different sizes and configurations.
- **GripTips**: you will never have a pipette tip loosen, leak or fall of again!
- **Intuitive User Interface**: simple to use touch wheel with colour screen.
- **Ergonomic Design**: save time and reduce repetitive stress injuries.

6. Multifunctional Reagent Dispenser
Integra Biosciences - VIAFILL

VIAFILL offers more liquid handling functionality than a conventional bulk reagent dispenser. Beside the typical reagent dispensing functionality, it can **also be used as a multichannel pipette or a well plate washer**, combining three operation modes into a single instrument. A choice of different tubing sets allow the user to quickly change between these three operation modes making VIAFILL a versatile tool for laboratories which perform a range of different applications; including reagent or media dispensing, cell seeding, plate washing or serial dilutions.

Features and benefits:

- Bulk reagent dispensing
- Disposable pipette tip dispening
- Touch screen user interface
- Cellular assay capability
- Plate washing capability
- Plate stacking capability
- Applications may include: Screening assays, Compound storage, Cell based assays, ELISAS, Kinetic assays, Genomic and Proteomic studies, …

7. The best cabinet with the lowest value CO2 emissions and power consumption in the market!
Faster – SafeFAST Premium

Faster has designed and manufactured the SafeFAST Premium, **a cabinet with low power consumption and CO2 emissions - the lowest value available in the market**!

This performance is reached through:

- Two direct current motor blowers.
- Low pressure drop filters.
- ECS Controlled microprocessor.
- Low consumption lights (LED).

The noise level = 42,5 dBA (measured according to EN12469) - **the most silent value available in the market!** Available in two sizes: 1m20 and 1m80.

8. Safety cabinet with reverse flow
Faster – FlowFAST H-RF

Faster designed a new cabinet, which works with a reverse flow to **protect the operator and the environment** against powders and aerosols.

Features:
- Total exhaust cabinet: 100% filtered by a **H14 HEPA** filter.
- Noise level far below **<55db**.
- Work surface in **AISI 304** stainless steel.
- Different work bench sizes available: 0,9m - 1,2m - 1,5m - 1,8m.

Applications: weighing, powder manipulations, ...

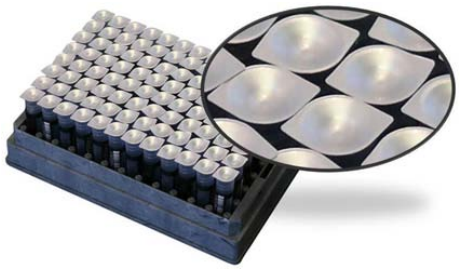
9. The smallest microbiological safety cabinet on the market
Faster – SafeFAST Light

With their **830 x 650 x 980mm (w x d x h) overall dimensions**, SafeFAST Light cabinets are the smallest microbiological safety cabinets manufactured in accordance to EN 12469:2000 currently available on the market. In spite of their small dimensions, SafeFAST Light cabinets include all the main technical elements of Faster Class II equipment such as:

- Internal AISI 304 stainless steel surfaces.
- Hinged frontal folding sash-window.
- Aluminium night door panel and electrical outlet.
- ECS microprocessor and digital display.

10. AirFilm Thermal Seal for tubes
FluidX – AirFilm

AirFilm aluminium film is designed for the individual sealing of polypropylene micro tubes in 96 or 384 format racks.



- **Impenetrable barrier:** Creates an air-tight seal that can be easily removed by peeling. Ideal for low temperature sample storage (-196°C).
- **Ideal for automated use:** AirFilm seals can be pierced with suitable liquid handling tips.
- **Reduce risk of sample damage:** Heat transfer during sealing process is lessened by the "embossed" seal construction which creates an air pocket between the seal and tube.

11. Need more space in your freezer?

FluidX – 240 High density tube rack

Achieve the impossible and squeeze nearly 3 racks into the same space as 1 rack.
Discover Our New 240 High Density Tube Rack, which stores 2,5 times as many 200ul samples in the same space.

Unique High Density 240 Tube Rack:

- 200ul sample volume
- External thread screw cap
- 2D tube ID
- 2D rack ID and orientation

12. New Decapper

FluidX – XSD-96 (8x12) Single Column and Whole Rack Screw Cap Decapper

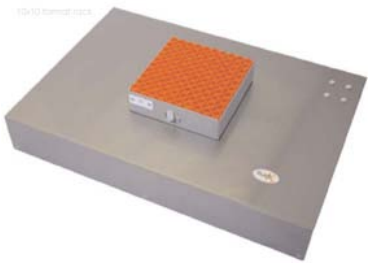
As market leader, FluidX offers the widest possible range of tube decapping and recapping systems for Screw Cap and Septum Sealed Tubes. Including 96, 48 and 24 Format Tube Racks, from 0.5ml upto 4ml Volume Ranges.

The XSD-96 (8x12) can operate as a Single Column Decapper or as a Whole Rack decapper by placing the caps into the disposable Cap Carrier. It can also Cap with fresh Caps from the Disposable Cap Carrier Tray.

13. New first 2D-reader designed for traditionally racked cryo tubes

FluidX – XTR-96 LF CRYO

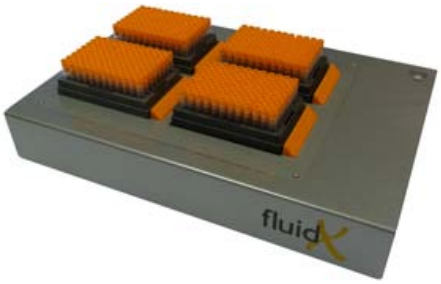
The first scanner designed for use with traditional cryo format racks. Ideal for use with cryogenic storage racks in 10x10 and 9x9 formats. Also compatible with SBS format racks and 5x5 cryogenic storage racks.



The XTR-96 LF CRYO retains all the features and benefits of the original on which it is based, including an integrated frost reduction system to allow multiple racks to be read without the build-up of frost or condensation on the underside of the glass. Reliable 2D-code reading **straight from the freezer**!

14. New Multi-Rack 2D Tube reader

FluidX – XTR-RACK TETRA FLEX



Unlike any other multi-rack reader, the XTR-RACK TETRA FLEX is fitted with four linear barcode readers to positively verify rack location & orientation. The only Multi Rack reader that can tell **you** where each rack was placed!

Features common to all XTR-RACK FLEX readers:

- Compatible with all 2D bar coded tubes in SBS rack format.
- **Results can be viewed directly** or integrated with other applications, such as Excel.
- FluidX racks supplied with 2D Data Matrix code identifier which can be read simultaneously to provide automatic rack orientation and more.
- "No tube" feature, able to discriminate between tube with a barcode that cannot be decoded and a rack position with no tube.
- User templates for applications where partially filled racks are routinely decoded.
- CRYO VERSION available with integrated frost reduction system allowing multiple racks to be read straight from freezer without build-up of frost or condensation on the underside of the glass.

15. New first environmentally friendly cooled incubator

Shel Lab – L120P

We are proud to introduce the first widely available, environmentally friendly, thermoelectrically cooled incubator designed for low temperature applications.

We have eliminated the need for a refrigeration compressor. The result is a low temperature incubator that uses 78% less energy than alternative models while reducing room air conditioning loads by producing 75% less heat. Save the environment AND save money!

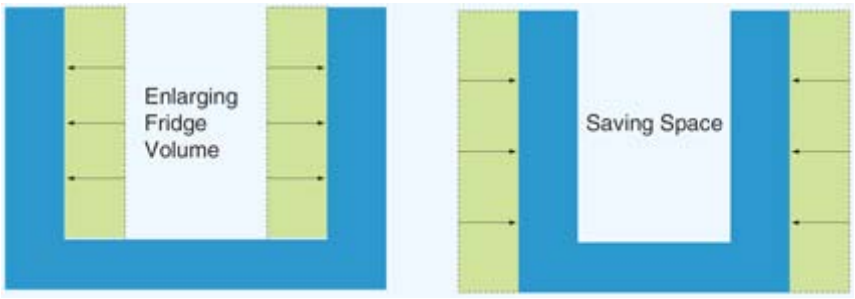
16. More capacity in your freezer, thanks to V.I.P. Technology

Haier – ULT freezer

Elscolab provides a wide range of horizontal and vertical ULT (Ultra Low Temperature) freezers. The Haier ULT freezers are equipped with a V.I.P. (Vacuum Insulation Panel) Technology, which provides more capacity in your freezer.

Some advantages of this technology:

- The vacuum design minimizes heat convection and heat conductivity.
- Space efficient.
- Environment-friendly, nanophase materials.



17. Save time, avoid dilution errors and prevent your samples from drying up!

Hellma – Traycell

Yes, you can…with the "TrayCell" of HELLMA, you have the capability to measure the DNA, RNA and even the protein concentration of your samples in a very sensitive way.

The only two things you need is a spectrophotometer on which you can read the concentration and a sample volume of maximally 5µL.

Because of the presence of a special cap which generates virtual dilution factors till 1:50 in comparison to a measurement with a standard 10 mm cuvette, you can save precious time, avoid dilution errors and even prevent your samples from drying up!

18. The power to see colour the way your customers do

HunterLab – ColorFlex EZ

HunterLab's next generation Colour Flex EZ spectrophotometer takes colour quality control to its highest level with 45/0 design for the ultimate in colour measurement preciseness.

Combining versatility, simplicity and performance, the ColorFlex EZ refl ects almost 60 years of colour measurement innovation in one easy-to-use, compact instrument from the world's most trusted experts in colour quality.

19. New precision instrument for the determination of night visibility of traffic signs and safety garments

Zehntner – ZRS6060

High-visibility warning clothing improves safety in work zones, especially in darkness.

Retro reflective materials have to fulfil performance limits to the coefficient of retro reflection R_A of traffic signs and the coefficient of retro reflection R' of safety garments which are defined within international standards.

20. New Optical dissolved oxygen measurement system for biotech

Mettler Toledo – InPro6860i

Easy Handling, Exceptional Performance

InPro 6860i was specially designed for biopharmaceutical industry for use in bench top Research and Development up to validated production fermenters.

Low maintenance with no compromise on dissolved oxygen sensor performance is now possible thanks to InPro 6860i, fully equipped with Intelligent Sensor Management (ISM). It allows easy sensor maintenance and calibration routines together with automatic continuous documentation.

Features and benefits:

- Easy handling
- Exceptional performance
- Uncompromized reliability
- Hygienic design

21. New pH, Ion Concentration & Conductivity Meters

Mettler Toledo – SevenCompact Bench Meters

This brand new line of pH/Ion and Conductivity bench meters offer simple, intuitive usage thanks to a 10-language menu and large colour display with icons and complete sentences.

When coupled with security functions (including Intelligent Sensor Management), USB and RS232 connectivity, added protection features and large memory, these instruments offer a uniquely versatile option for universal usage.

22. The unique modular portable meter for pH measurement

Knick – Portavo S

Knick presents the world's only portable analyzer in water-proof polished stainless steel housing with IP 67 protection. It provides rep laceable measuring modules for analog and digital pH measurement – and offers a previously unknown range of features. Perfectly suitable as mobile or stationary measuring system for precalibrating intelligent Memosens® process sensors with digital data storage in the sensor.

Unique flexibility

With its robust design, the Portavo® S series is suitable for on-site applications or rough routine chemistry work. The seamless IP 67 housing has a smooth, easy-to-clean and disinfectable surface.

It is ideal for hygienically sensitive areas in the food, beverage, pharmaceutical, and biotech industries.

Unique functionality

Portavo® S stands out by its high accuracy and the large measuring range as well as by the built-in radio clock with time synchronization. Long operating time with ordinary AA batteries, plus convenient mains-powered operation in the docking station (e.g. in the lab), expand the field of applications. The integrated real-time data logger for storage of up to 10,000 data records with time, date, and tag number sets new standards. Via Bluetooth, the recorded data can be easily transferred to a computer for further processing.

23. The most durable and easy to use handheld conductivity instrument

YSI – Pro30 Handheld

The YSI Pro30 is the most durable and easy to use handheld conductivity instrument to date! The feature set of the Pro30 instrument makes it ideal for use in the field. Utilizing the durable MS (Military Spec) locking bayonet-style cable connector, the instrument can accept rugged field cables available in lengths from 1- to 30-meters. The well designed cable management kit even makes the use of long cables easy and convenient.

The Pro30 offers a convenient fast Cal feature that remembers the previous settings and walks you through the calibration routine. This feature, along with others like user replaceable cables, simplifies operation and saves you time and money.

The rugged, 4-electrode conductivity sensor is built right into the cable and provides accurate data for conductivity, specific conductance, salinity and total dissolved solids (TDS).

24. In-situ Sensor Convenience, with the power of an analyzer!

Mettler Toledo – Gpro 500 TDL Series for Oxygen Measurement

METTLER TOLEDO Process Analytics is proud to announce the global release of its Tunable Diode Laser (TDL) system for Oxygen Measurement. The GPro 500 represents a leap forward in oxygen analysis. Packed with state-of-the-art technology it offers exceptional measuring performance and easy installation, and requires little or no maintenance. TDL gas analyzers are a significant improvement over extractive analysis systems. Firstly, no sample extraction or conditioning is necessary. Secondly, they are immune to interference from background gases, and very tolerant to high moisture and dust environments. And thirdly, they exhibit very low drift.

<u>Unique Probe design for one-flange installation</u>
METTLER TOLEDO has combined TDL technology with their expertise in industrial application analytical instrument design, to create a probe that delivers the convenience of an in-line sensor and the level of measurement confidence of a top line analyzer.

Other TDL gas solutions are of a cross-stack design, meaning that the receiver must be positioned directly opposite the laser source. This causes installation difficulties and requires regular, troublesome realignment. The GPro 500 incorporates a probe that reflects the laser beam back to the receiver in the sensor head, therefore alignment is never required. And because the laser beam travels twice through the gas stream, the optical path length is doubled, resulting in more accurate O2 measurement.

Built-in intelligence

METTLER TOLEDO's Intelligent Sensor Management (ISM) technology adds to the features of the GPro 500 by incorporating predictive diagnostics that continually assess the optical path quality and indicate when cleaning is required, before measurements are affected.

Other than yearly verification and occasional cleaning of the optics, no other maintenance is required. The GPro 500 can be left to provide real-time, continuous, accurate O2 measurements, enhancing process safety at all times.

25. Intelligent in-line CO2 measurement now available for brewery and carbonated soft drinks (CSD) applications!

Mettler Toledo – InPro 5500i

METTLER TOLEDO Process Analytics extends its offering for brewery and CSD processes by launching the InPro 5500i for in-line CO_2 measurements for beverage production applications. Working on industry-proven thermal conductivity technology, the sensor provides highly accurate and stable CO_2 measurements. Immunity to background gases such as oxygen and nitrogen means CO_2 measurement is highly selective. Measurements are also comparable to well-known references methods.

The InPro 5500i can be installed easily with a choice of process connections including Varivent, Tri-clamp and 28mm/M42. Its hygienic and simple membrane design reduces maintenance efforts, while the absence of moving parts ensures a reduced failure rate and high operational uptime.

METTLER TOLEDO's Intelligent Sensor Management technology is installed on the InPro 5500i: advanced diagnostics tools, Plug and Measure feature, and pre-calibration routine support trouble-free and fast start-up, and operation. The Membrane Integrity Detection function informs operators of a drop in membrane reliability. This unique feature allows operators to perform a membrane change before measurements and product quality are affected. The Dynamic Lifetime Indicator and Adaptive Calibration Timer inform operators when the sensor will need servicing. Maintenance shifts from a regularly scheduled or reactive process to one where tasks can be planned in advance. Calibration of the InPro 5500i is a simple operation and can be conveniently performed in-line.

Unlike other CO_2 sensors, the InPro 5500i protects itself from damage during SIP/CIP cycles or when the purge gas or sensor membrane fails, and therefore helps provide long sensor lifetime.

For processes where O_2 and CO_2 measurement are of high importance, a package of the InPro 6970i O_2 and InPro 5500i CO_2 sensor using a multi-channel transmitter will solve measurement needs at reduced investment and installation cost.

26. Transmitters combine multi-parameter measurement for Hazardous area applications

Mettmer Toledo – M400 2-Wire Series of Transmitters

On-site or remote sensor diagnostics tools lead to reduced operating costs and increased process uptime

METTLER TOLEDO Process Analytics, a leading provider of analytical measurement solutions, announces the launch of the M400 2-wire, a series of transmitters for liquid analytics and gas phase applications in the chemical and chempharma industries. M400 2-wire transmitters have global approvals for hazardous area use, and combine multi-parameter measurement with remote access to predictive sensor diagnostic tools over HART communication protocol. The transmitter series covers pH/ORP, dissolved oxygen, gas phase oxygen and conductivity measurements.

METTLER TOLEDO has increased process reliability and stability by integrating its proprietary Intelligent Sensor Management (ISM) concept into the transmitter. ISM is a digital sensor technology that simplifies sensor maintenance and handling, and reduces sensor lifecycle costs. Central to the benefits of ISM is the availability of predictive sensor diagnostic tools. These enable operators to easily determine any sensor maintenance required in advance of performance being affected.

The possibility of remote access to sensor diagnostics over HART or the transmitter's second analog output increases the communication capability and helps to avoid unplanned shutdowns. This leads to improved productivity and a reduction in operating costs. In addition, the M400 2-wire series includes a mixed-mode input for connection of either conventional analog sensors or METTLER TOLEDO's digital ISM sensors. "The mixed-mode input offers a unique and smooth technology transition from analog to digital sensors and provides a future oriented investment in the plant," says Jürgen Illerhaus, head of product management at METTLER TOLEDO Process Analytics. "In combination with the M400 2-wire series many other features it means the transmitter provides operating assurance even in the most challenging conditions."